# BANGALORE ELECTRICITY SUPPLY COMPANY LIMITED

## SECTION- IX

## VOLUME-II

## Bill of Quantities (BOQ)

| PART-I SUPPLY PORTION | | | | |
|---|---|---|---|---|
| **SL No** | **Particulars** | **Unit** | **Total Qty** | **Material code** |
| **1** | Supply & Erection of PSCC pole 9 mtr long 300 kg W/L (for dead end and anchor points only) | No | **12** | 200005 |
| **2** | Supply & Erection of PSCC pole 9 mtr long 200kg W/L (for intermediate only) | No | **120** | 200006 |
| **3** | Supply & Erection of 11 kV, Horizontal Cross Arm with clamps, HTST supports, bolts, nuts and washers for PSCC Pole - 9 Mtr Long, 200 Kg WL-GI | set | **132** | CDS materials for General works |
| **4** | Supply & Providing of 45KN Composite polymer insulators. | No | **106** | 283320 |
| **5** | Supply & Providing of 11kV Composite Polymer pins insulators.( 24mm dia FRP rod) | No | **418** | 283008 |
| **6** | Supply & Providing of Guy Set Complete with No. 15 Strain Insulator & Concreting materials-GI | set | **144** | CDS materials for General works |
| **7** | Supply & stringing of ACSR Rabbit conductor with 1.5% sag as per BESCOM Specification | Km | **18** | 284108 |
| **8** | Supply & Providing of Spiral Earth Electrode | No | **164** | 281683 |
| **9** | Supply & erection of DP set (2 pole structure kit- GI) with 9 mtr PSCC, 300 KG W/L including 5Kg , 8SWG GI wire for structure grounding. | set | **12** | CDS 46 |
| **10** | Supply & providing of 11kV class 200 AMPS Single Break GOS | Set | **18** | 304212 |
| **11** | Supply & providing of H - Frame Set for 11kV, 200Amps Single Break GOS Mounting - GI | Set | **12** | 280149 |
| **12** | Supply & providing of 11kV Spl 3pin X-arms, pole clamps, bolts for PSCC pole- GI | No | **12** | 280013 |
| **13** | Supply & providing of 11kV Class DOLO Cutouts | Set (3 Nos) | **12** | 302011 |
| **14** | Supply & providing of Guardings Materials for road crossing(span=40 mtr) | Span | **1.2** | 278916 |
| **15** | Supply & providing of caution/Danger board as per drawing no.BESCOM/GM/CP/40/24.10.17 | No | **18** | 613050 |
| **16** | Supply & Fixing of Anticlimbing Device GI Barbed Wire (12 mtrs/1kg)Lumpsum | Kg | **40** | 278911 |
| **17** | Supply & Erection of Double Pole Mounted Transformer kit for 63 kVA with 2 Nos of 9 mtr long PSCC Pole, 300KG W/L- GI | Set | **2** | CDS materials for General works |
| **18** | Supply & Erection of 11kV/433V, 63 kVA,3phase 50cys Distribution Transformer BEE-4star rated | No | **2** | 321438 |
| **19** | Supply & providing of Earthing materials pipe type for grounding as per Drawing No BESCOM/GM/CP/15&34 dt:24.10.17(Single Electrode with accessories) | No | **18** | 281674+600095+607054, CDS 60 |

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|---|---|---|---|---|
| **20** | Supply & providing of GI wire 8SWG | kg | **60** | 281008 |
| **21** | Supply & providing of Guy wire 7/10SWG | kg | **42** | 281110 |
| **22** | Supply & providing of 11kV lightning arrestors, poliymer Type,9kV 5 kA (Set=3No) | Set | **14** | 303202, CDS 60 |
| **23** | Supply & providing of LT Protection kit | No | **6** | 301107 |
| **24** | Supply & providing of LT wiring (from 63 KVA DTC to LT line) | | **2** | |
| | i) Al Lead Wire - 95 Sqmm | Mtr | **40** | 289031 |
| | ii) Heavy Duty Long Barrel Copper Lug - 95 Sqmm | No | **12** | 288531 |
| | iii) PG Clamp - Rabbit to 95 Sqmm | No | **24** | 285508, CDS 60 |
| | iv) Spacer for DTC Wiring | No | **4** | 284503 |
| | v) Fish Plate with necessary Clamps, bolts & nuts etc complete (Galvanised) | No | **8** | 280800+280511, CDS 60 |
| | vi) LT Metering box with CTs and necessary wiring for housing ETV Meter (Please see CDS - 39) | No | **2** | CDS 39 |
| **25** | Supply & providing of H.G.Fuse unit,11kV solid core Type(Set=3no) | Set | **6** | 302122 |
| **26** | supply & providing Transparent Alkathine tube 19mm dia, 2mm thick in coils of 30 mtrs | Coil | **42** | 821900 |
| **27** | Supply & Erection of 9M PSCC pole WL 300Kg | No | **4** | 200005 |
| **28** | Supply & Erection of Single Pole Mounted Transformer kit for 25 kVA on 9 mtr PSCC Poles of 300kG WL --GI with H-frame | Set | **4** | 280119, CDS materials for General works |
| **29** | Supply & Erection of 11kV/433V, 25 kVA,3phase 50cys Distribution Transformer BEE-4star rated | No | **4** | 321437 |
| **30** | Supply & providing of LT wiring (from 25 KVA DTC to LT line) | | **4** | |
| | Aluminium lead wire 50 sqmm | Mtr | **80** | 289031 |
| | Heavy duty long barrel copper lugs- 50 sqmm | No | **24** | 288531 |
| | P.G Clamps - Rabbit to 50 sq.mm | No | **36** | 285508, CDS 63 |
| | Fish Plate with necessary Clamps, bolts & nuts etc complete (Galvanised) | No | **16** | 280800+280511, CDS 63 |
| | Spacers for DTC wiring | No | **12** | 284503 |
| | LT Metering box with CTs and necessary wiring for housing ETV Meter (Please see CDS - 39) | No | **4** | CDS 39 |
| **31** | PSCC Pole - 8 Mtr Long, 200 Kg WL (for Intermediate Pole) | No | **32** | 200004 |
| **32** | LT 4 Pin Cross Arm with clamps, bolts, nuts and washers for PSCC Pole - 8 Mtr Long, 200 Kg WL-GI | Set | **32** | 280014, CDS materials for General works |
| **33** | LT 2 Pin Cross Arm with clamps, bolts, nuts for PSCC Pole - 8 Mtr Long, 200 Kg WL- GI | Set | **8** | 280012, CDS materials for General works |
| **34** | 1.1 kV Pin Insulator with GI Pin | No | **128** | 283053, CDS 5 |
| **35** | No. 8 Strain Insulator | No | **8** | 283158 |
| **36** | Supply & Providing of Guy Set Complete with No 8. Strain Insulator & Concreting materials-GI | Set | **32** | CDS materials for General works |

| PART-II ERECTION PORTION | | | |
|---|---|---|---|
| **SL No** | **Particulars** | **Unit** | **Total Qty** |
| **1** | Supply & Erection of PSCC pole 9 mtr long 300 kg W/L (for dead end and anchor points only) | No | **12** |
| **2** | Supply & Erection of PSCC pole 9 mtr long 200kg W/L (for intermediate only) | No | **120** |
| **3** | Supply & Erection of 11 kV, Horizontal Cross Arm with clamps, HTST supports, bolts, nuts and washers for PSCC Pole - 9 Mtr Long, 200 Kg WL-GI | set | **132** |
| **4** | Supply & Providing of Guy Set Complete with No. 15 Strain Insulator & Concreting materials-GI | set | **144** |
| **5** | Supply & stringing of ACSR Rabbit conductor with 1.5% sag as per BESCOM Specification | Km | **18** |
| **6** | Supply & Providing of Spiral Earth Electrode | No | **164** |
| **7** | Supply & erection of DP set (2 pole structure kit- GI) with 9 mtr PSCC, 300 KG W/L including 5Kg , 8SWG GI wire for structure grounding. | set | **12** |
| **8** | Supply & providing of 11kV class 200 AMPS Single Break GOS | Set | **18** |
| **9** | Supply & providing of H - Frame Set for 11kV, 200Amps Single Break GOS Mounting - GI | Set | **12** |
| **10** | Supply & providing of 11kV Spl 3pin X-arms, pole clamps, bolts for PSCC pole- GI | No | **12** |
| **11** | Supply & providing of 11kV Class DOLO Cutouts | Set (3 Nos) | **12** |
| **12** | Supply & providing of Guardings Materials for road crossing(span=40 mtr) | Span | **1.2** |
| **13** | Supply & providing of caution/Danger board as per drawing no.BESCOM/GM/CP/40/24.10.17 | No | **18** |
| **14** | Supply & Fixing of Anticlimbing Device<br>GI Barbed Wire (12 mtrs/1kg)Lumpsum | Kg | **40** |
| **15** | Supply & Erection of Double Pole Mounted Transformer kit for 63 kVA with 2 Nos of 9 mtr long PSCC Pole, 300KG W/L- GI | Set | **2** |
| **16** | Supply & Erection of 11kV/433V, 63 kVA,3phase 50cys Distribution Transformer BEE-4star rated | No | **2** |
| **17** | Supply & providing of Earthing materials pipe type for grounding as per Drawing No BESCOM/GM/CP/15&34 dt:24.10.17(Single Electrode with accessories) | No | **18** |
| **18** | Supply & providing of 11kV lightning arrestors, poliymer Type,9kV 5 kA (Set=3No) | Set | **14** |
| **19** | Supply & providing of LT Protection kit | No | **6** |

| | | | |
|---|---|---|---|
| **20** | Supply & providing of LT wiring (from 63 KVA DTC to LT line) | | **2** |
| | i) Al Lead Wire - 95 Sqmm | Mtr | **40** |
| | ii) Heavy Duty Long Barrel Copper Lug - 95 Sqmm | No | **12** |
| | iii) PG Clamp - Rabbit to 95 Sqmm | No | **24** |
| | iv) Spacer for DTC Wiring | No | **4** |
| | v) Fish Plate with necessary Clamps, bolts & nuts etc complete (Galvanised) | No | **8** |
| **21** | LT Metering box with CTs and necessary wiring for housing ETV Meter (Please see CDS - 39) | No | **2** |
| **22** | Supply & providing of H.G.Fuse unit,11kV solid core Type(Set=3no) | Set | **6** |
| **23** | Supply & Erection of 9M PSCC pole WL 300Kg | No | **4** |
| **24** | Supply & Erection of Single Pole Mounted Transformer kit for 25 kVA<br>on 9 mtr PSCC Poles of 300kG WL --GI with H-frame | Set | **4** |
| **24** | Supply & Erection of 11kV/433V, 25 kVA,3phase 50cys Distribution Transformer BEE-4star rated | No | **4** |
| **25** | Supply & providing of LT wiring (from 25 KVA DTC to LT line) | | **4** |
| | Aluminium lead wire 50 sqmm | Mtr | **80** |
| | Heavy duty long barrel copper lugs- 50 sqmm | No | **24** |
| | P.G Clamps - Rabbit to 50 sq.mm | No | **36** |
| | Fish Plate with necessary Clamps, bolts & nuts etc complete (Galvanised) | No | **16** |
| | Spacers for DTC wiring | No | **12** |
| | LT Metering box with CTs and necessary wiring for housing ETV Meter (Please see CDS - 39) | No | **4** |
| **26** | PSCC Pole - 8 Mtr Long, 200 Kg WL (for Intermediate Pole) | No | **32** |
| **27** | LT 4 Pin Cross Arm with clamps, bolts, nuts and washers for PSCC Pole - 8 Mtr Long, 200 Kg WL-GI | Set | **32** |
| **28** | LT 2 Pin Cross Arm with clamps, bolts, nuts for PSCC Pole - 8 Mtr Long, 200 Kg WL- GI | Set | **8** |
| **29** | Supply & Providing of Guy Set Complete with No 8. Strain Insulator & Concreting materials-GI | Set | **32** |
| **30** | Guy concreting with Boulders, Mud and Sand | No | **32** |